AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-40. (Canceled)

41.	(Currently Amended) A method of determining the location of a mobile terminal in a given area, the method comprising the steps of:

including said mobile terminal both in a satellite-based positioning system and in a cellular communications system, whereby said mobile terminal is adapted to receive satellite signals from said satellite-based system and to be covered by at least one cell of said cellular communications system; and

determining at least approximately the coordinates of said mobile terminal based on both satellite signals received from said satellite-based system and information related to said cellular communications system, wherein said coordinates include an altitude coordinate, wherein the step of determining at least approximately the coordinates of said mobile terminal further comprises:

identifying, in said cellular communications system, a plurality of base stations adjacent to said mobile terminal, each said adjacent base station having a respective altitude coordinate;

deriving an estimate of said altitude coordinate for said mobile terminal, wherein deriving the estimate of said altitude coordinate

-2-

comprises one of i) determining a minimum of said altitude

coordinates for said adjacent base stations and using said

minimum value as said estimate of said altitude coordinate; and ii)

determining an average value for said respective altitude

coordinates of the plurality of adjacent base stations and using said

average value as said estimate of the altitude coordinate; and

determining the location coordinates of said mobile terminal using the

estimate of said altitude coordinate and information provided by the

satellite-based system, wherein the step of determining the location

coordinates further comprises;

determining a first set of values for said location coordinates on

the basis of said information related to said cellular

communications system;

acquiring said satellite signals from said satellite-based system

and deriving therefrom an area likely to include the mobile

terminal;

providing a new set of values of said location coordinates by:

i) effecting, based on said information related to said

cellular communications system, a bi-dimensional

positioning of said mobile terminal within said area

likely to include the mobile terminal; and

ii) accessing a geographical data base and associating

to the bi-dimensional positioning coordinates of said

mobile terminal within said area a corresponding

value for said altitude coordinate;

determining the distance between said new set of values of said

location coordinates and said first set of values of said

location coordinates;

comparing said distance with a threshold indicative of the

degree of accuracy pursued in the location action; and

if said distance is higher than said threshold, starting an iterative

process wherein said area likely to include the mobile

terminal is re-defined on the basis of said satellite signals

from said satellite-based system and the latest value

available for said altitude coordinate and said steps of

affecting said bi-dimensional positioning, accessing said

geographical data base and associating to the

bi-dimensional positioning coordinates of said mobile

terminal within said area a corresponding value for said

altitude coordinate are repeated, wherein said steps of

bi-dimensional positioning are effected over said re-defined

area.

42-45.   (Canceled).

46.   (Previously Presented) The method of claim 41, comprising the steps of:

performing power measurements providing, for each said adjacent base

station, a respective power value for said mobile terminal; and

determining said average value as a weighted average of said respective

altitude coordinates values, the weighting being a function of said power

values determined for each said adjacent base station.

47. (Previously Presented) The method of claim 41, wherein said positioning

coordinates are determined in an iterative manner by subsequent location steps,

a new refined estimate of said altitude coordinate being used at each step in said

iterative process.

48. (Previously Presented) The method of claim 41, comprising the steps of:

providing an approximate bi-dimensional positioning of said terminal on the

basis of said information related to said cellular communications system;

and

determining said positioning coordinates of said mobile terminal on the basis

of said satellite signals by exploiting said bi-dimensional positioning and

said estimate of said altitude coordinate.

49. (Previously Presented) The method of claim 48, wherein said determining step

comprises:

initially determining a search area for positioning coordinates of said mobile

terminal based on said satellite signals and said estimate of said altitude

coordinate; and

subsequently identifying said positioning coordinates within said search area

based on information related to said cellular communications system.

50.   (Previously Presented) The method of claim 49, comprising the steps of:

defining the search area for said positioning coordinates in the form of a

hyperbolic set of points; and

determining said positioning coordinates within said hyperbolic set of points

by using said information related to said cellular communications system.

51-52.   (Canceled).

53.   (Currently Amended) The method of claim [[52]] 41, wherein said iterative

process comprises the steps of:

determining the distance between the sets of values of said location

coordinates as available before and after the current iteration step; and

comparing said distance with a threshold indicative of the degree of accuracy

pursued in the location action; and

if said distance is higher than said threshold, running a further iteration step

wherein said area likely to include the mobile terminal is further re-defined

on the basis of said satellite signals from said satellite-based system and

the latest value available for said altitude coordinate and said steps of

effecting said bi-dimensional positioning, accessing said geographical

data base and associating to the bi-dimensional positioning coordinates of

said mobile terminal within said area a corresponding value for said

altitude coordinate and are further repeated, wherein said step of

bi-dimensional positioning is effected over said further re-defined area.

54. (Previously Presented) The method of claim 41, comprising the step of

determining at least approximately said coordinates based on satellite signals

received from less than three satellites of said satellite-based system.

55. (Currently Amended) An apparatus comprising:

a first receiver adapted to receive satellite signals transmitted in a

satellite-based system;

a second receiver adapted to receive signals transmitted in at least one cell of

a cellular communications system; [[and]]

at least one processing module configured for determining at least

approximately the coordinates of a mobile terminal based on both satellite

signals received from said satellite-based system and information related

to said cellular communications system, wherein said coordinates include

an altitude coordinate and said at least one processing module being

configured for:

identifying, in said cellular communications system, a plurality of base

stations adjacent to said mobile terminal, each said adjacent base

station having a respective altitude coordinate;

deriving an estimate of said altitude coordinate for said mobile

terminal, wherein deriving the estimate of said altitude coordinate

comprises one of i) determining a minimum of said altitude

-7-

coordinates for said adjacent base stations and using said

minimum value as said estimate of said altitude coordinate; and ii)

determining an average value for said respective altitude

coordinates of the plurality of adjacent base stations and using said

average value as said estimate of the altitude coordinate; and

determining the coordinates of said mobile terminal using the estimate

of said altitude coordinate and information provided by the

satellite-based system;

a geographical data base including data base items associated with a given

set of bi-dimensional positioning coordinates of said mobile terminal in

said area and corresponding values for said altitude coordinate, said at

least one processing module being configured for accessing said

geographical data base whereby said positioning coordinates as at least

approximately determined based on said satellite signals are refined via

the information derived from said geographical data base;

at least one module configured for:

determining a first set of values for said location coordinates on the

basis of said information related to said cellular communications

system;

acquiring said satellite signals from said satellite-based system and

deriving therefrom an area likely to include the mobile terminal; and

providing a new set of values of said location coordinates by:

i) effecting, based on said information related to said cellular

communications system, a bi-dimensional positioning of said

mobile terminal within said area likely to include the mobile

terminal; and

ii) accessing said geographical data base and associating to

the bi-dimensional positioning coordinates of said mobile

terminal within said area a corresponding value for said

altitude coordinate; and

at least one module configured for:

determining the distance between said new set of values of said

location coordinates and said first set of values for said location

coordinates;

comparing said distance with a threshold indicative of the degree of

accuracy pursued in the location action; and

if said distance is higher than said threshold, starting an iterative

process wherein said area likely to include the mobile terminal is

re-defined on the basis of said satellite signals from said

satellite-based system and the latest value available for said

altitude coordinate and said steps of effecting said bi-dimensional

positioning, accessing said geographical data base and associating

to the bi-dimensional positioning coordinates of said mobile

terminal within said area a corresponding value for said altitude

coordinate and are repeated, wherein said steps of bi-dimensional

positioning is effected over said re-defined area.

56-58.   (Canceled).

59.   (Previously Presented)   The apparatus of claim 55, wherein said at least one

module is configured for performing power measurements providing, for each

said adjacent base station, a respective power value for said mobile terminal,

and determining said average value as a weighted average of said respective

altitude coordinates values, the weighting being a function of said power values

determined for each said adjacent base station.

60.   (Previously Presented) The apparatus of claim 55, comprising at least one

module configured for determining said positioning coordinates in an iterative

process by subsequent location steps, a new refined estimate of said altitude

coordinate being used at each step in said iterative process.

61.   (Previously Presented) The apparatus of claim 55, comprising at least one

module configured for:

provided an approximate bi-dimensional positioning of said terminal on the

basis of said information related to said cellular communications system;

and

determining said positioning coordinates of said mobile terminal on the basis

of said satellite signals by exploiting said bi-dimensional positioning and

said estimate of said altitude coordinate.

62.   (Previously Presented) The apparatus of claim 61, comprising at least one
        module configured for:

  initially determining a search area for positioning coordinates of said mobile
        terminal based on said satellite signals and said estimate of said altitude
        coordinate; and

  subsequently identifying said positioning coordinates within said search area
        based on information related to said cellular communications system.

63.   (Previously Presented) The apparatus of claim 62, comprising at least one
        module configured for:

  defining the search area for said positioning coordinates in the form of a
        hyperbolic set of points; and

  determining said positioning coordinates within said hyperbolic set of points
        by using said information related to said cellular communications system.

64-65.   (Canceled).

66.   (Currently Amended) The apparatus of claim [[65]] 55, comprising at least one
        module configured for running said iterative process by:

  determining the distance between the sets of values of said location
        coordinates as available before and after the current iteration step; and

  comparing said distance with a threshold indicative of the degree of accuracy
        pursued in the location action; and

if said distance is higher than said threshold, running a further iteration step

wherein said area likely to include the mobile terminal is further re-defined

on the basis of said satellite signals from said satellite-based system and

the latest value available for said altitude coordinate and said steps of

effecting said bi-dimensional positioning, accessing said geographical

data base and associating to the bi-dimensional positioning coordinates of

said mobile terminal within said area a corresponding value for said

altitude coordinate are further repeated, wherein said step of

bi-dimensional positioning is effected over said further re-defined area.

67-82.   (Canceled).

83.   (Previously Presented) The method of claim 41, further comprising the steps of:

determining at least one approximate search area using the estimate of said

altitude coordinate and information provided by the satellite-based system;

and

identifying the coordinates of said mobile terminal in the at least one

approximate search area.

84.   (Previously Presented) The apparatus of claim 55, wherein said at least one

processing module is further configured for:

determining at least one approximate search area using the estimate of said

altitude coordinate and information provided by the satellite-based system;

and

identifying the coordinates of said mobile terminal in the at least one

approximate search area.

85.   (Canceled).